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# JUNIATA

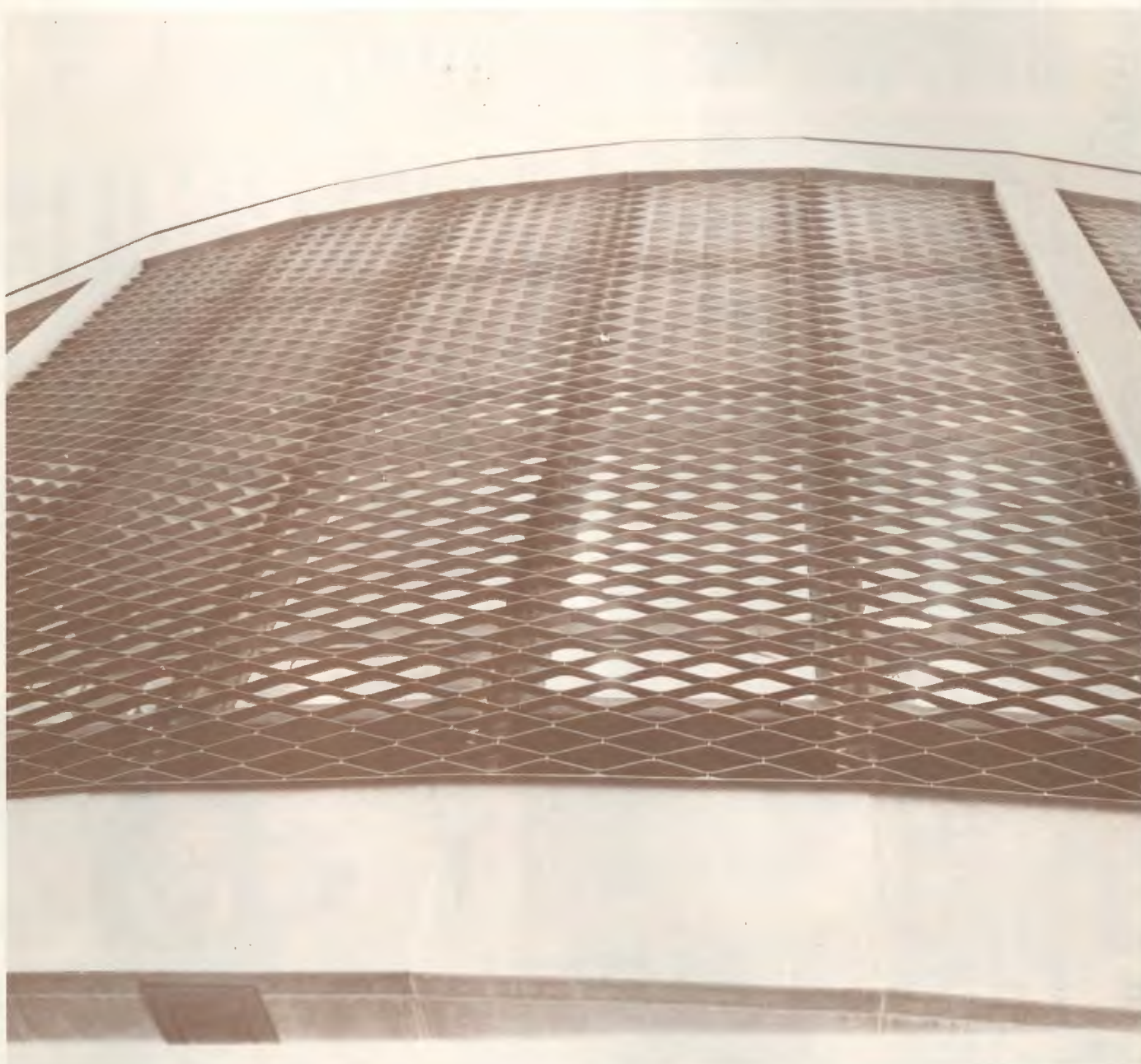


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THE JUNIATA COLLEGE BULLETIN    September 1974

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*Behind the impressive facade of the Brumbaugh Science Center, Juniata students and faculty members are engaged in research which could help to alleviate the nation's energy crisis and decrease the number of heart attacks.*



## Students Engaged in Energy, Cholesterol Research

By **RON BERKHEIMER**

Juniata is doing its part to help solve two of the nation's most difficult problems — the growing energy crisis and the large number of deaths caused by heart diseases.

Three separate energy research projects are being conducted by students and faculty members from the Departments of Chemistry, Geology and Physics.

The three projects deal with (1) the conversion of coal to liquid fuels, (2) the development of solar cells or batteries which produce an electrical current when they are exposed to sunlight, and (3) the search for more efficient ways to utilize shale laden with natural gas.

Still another research project involves an effort to find a method of preventing the synthesis of cholesterol in the body. The accumulation of cholesterol in the blood stream is a common cause of arteriosclerosis (hardening of the arteries) and heart failure.

All of the projects are part of a continuing program of undergraduate research supervised by Juniata's Division of Natural Sciences and Mathematics.

Eleven students spent 10 weeks on the campus this summer, engaged in research on a full-time basis. They received a modest salary for their work with most of the funds being provided by grants from the National Science Foundation and the privately-endowed Research Corporation. Most of the students are planning to continue their research on a volunteer basis or in conjunction with courses during the academic year.

Five of the students were involved in the coal project, analyzing the characteristics and molecular structure of "synthoil," a liquid fuel produced experimentally by the U.S. Bureau of Mines Research Center near Pittsburgh. One of the things which the Juniata students are interested in studying is whether "synthoil" contains components which might corrode burners and pipes if it is used over a lengthy period of time.

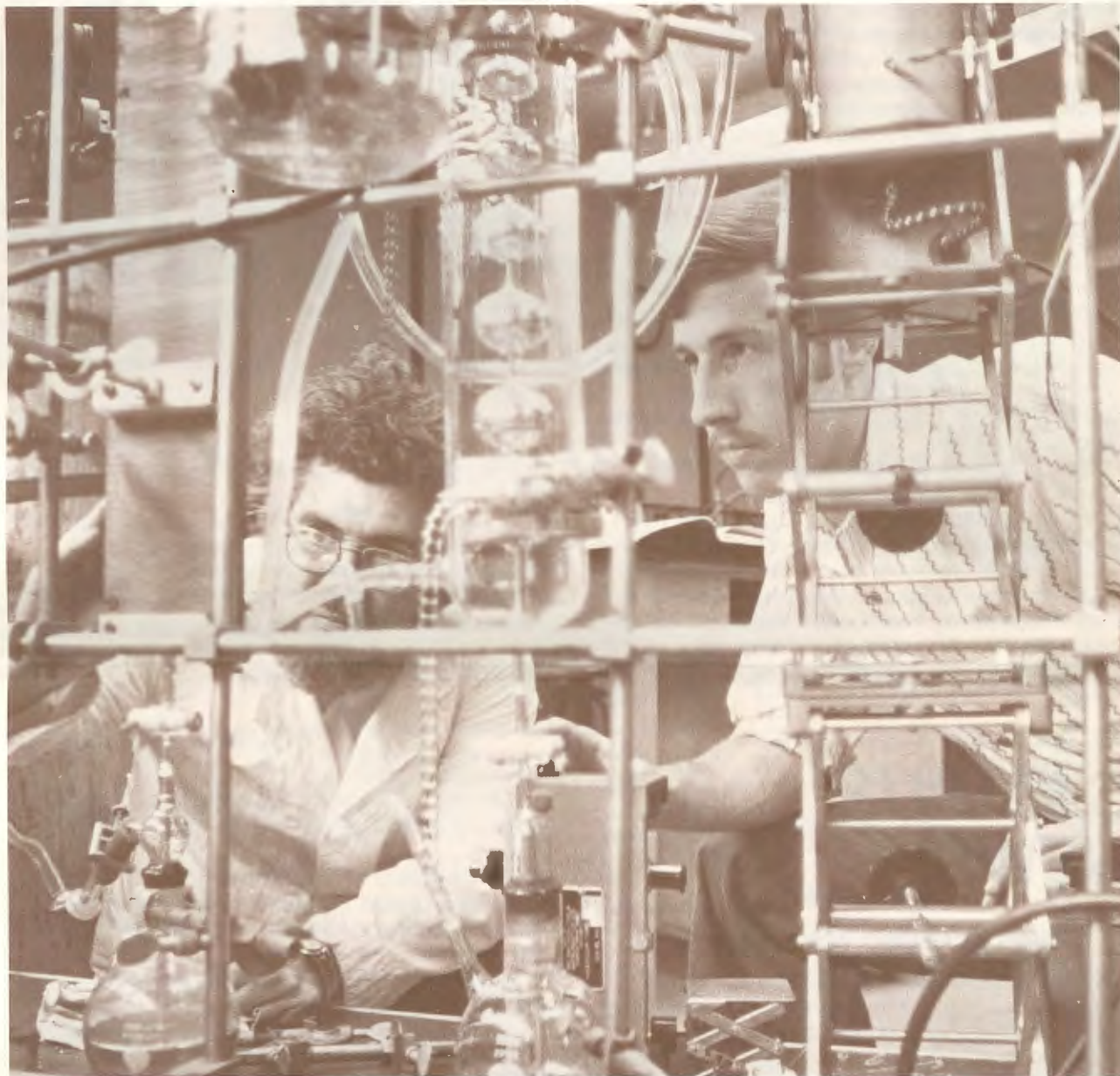
Dr. William E. Russey, associate professor of chemistry, has been supervising this research. The students who worked with him during the summer are James Gerek, Arthur Ritter, Michael Buckwalter and Richard Savage '75, and Todd Price '76.

Dr. Russey also has been awarded a National Science Foundation Faculty Fellowship which will enable him to spend the 1975-76 academic year at the Max Planck Institute for Coal Research in Mülheim un der Ruhr, Germany. He'll take sabbatical leave for the year.

### PROGRESS IN SOLAR ENERGY

The project which apparently made the most progress during the summer was the solar energy research, under the direction of Dr. Robert B. Hall, assistant professor of physics. Dr. Hall has a keen interest in solar energy and was granted a leave to study during the current academic year at the University of Delaware's Institute for Energy Conversion.

The institute is developing a solar home, which uses sunlight to produce electricity for heat and other energy needs. Solar One, a prototype built near the institute, is 80 percent free of outside power. However, it cost far more than the average family could afford and the large panes of coated glass or "solar panels" on its roof make it rather unattractive. Teams of psychologists, sociologists, economists and architects, as well as scientists, are involved in the development of the solar home. They're trying to produce a model comparable to



*Dr. Paul Schettler, associate professor of chemistry, and Richard Savage '75 are pictured with the "BET apparatus" they constructed. The equipment is used in measuring the gas absorption rates of solids.*

other housing in costs and attractive enough to be desirable.

Dr. Hall and his two student assistants at Juniata this summer (Gary Marpoe '76 and Meredith Grady) made solar cells from pieces of glass coated with cadmium sulfide and copper sulfide. An electrical current is produced as sunlight shines through the glass. The panels on the roof of Solar One work in a similar fashion, but Dr. Hall, Marpoe and Miss Grady believe that they've found a way to make cells which produce a stronger current, and that their method for fabricating the cells is also simpler. They're hoping to publish a description of their process in a scientific journal.

Miss Grady, incidentally, is a junior this fall at Gettysburg College. She was the only non-Juniata student involved in the summer research and she was selected from numerous applicants.

### 6000-YEAR SUPPLY OF GAS

The other energy research project, involving the search for a way to utilize shale laden with natural gas, was conducted by Dr. Paul D. Schettler, associate professor of chemistry. Deposits of the gas-bearing shale as much as 4000 feet deep lie under the ground throughout much of western Pennsylvania and parts of Ohio. If this gas could be recovered, scientists estimate that it could supply all of the country's natural gas needs, based on recent consumption rates, for some 6000 years.

A utility corporation has recovered small amounts of natural gas from shale in some of its wells, but has not found a way to produce marketable quantities at a reasonable cost. The firm has been supplying shale samples for Dr. Schettler to examine.

Since this research is still in its preliminary stages, Dr. Schettler has been doing most of it himself. However, Richard Savage, one of the students who also worked with Dr. Russey in the "synthoil" studies, helped Dr. Schettler to construct a "BET apparatus," used in measuring the gas absorption characteristics of solids.

"If we can discover how the gas is absorbed, we may be able to figure out a cheap way to get it off," Dr. Schettler added.

He does know that heating the shale releases some of the gas, but generating the heat may consume more energy than the recovered gas produces.

Since Dr. Schettler also is on leave this year, this project may not be resumed again until he returns next summer. He is now in France, studying with Dr. Gerard Lepoutre of the Faculte Catholique de Lille, an internationally known expert on metal-ammonia solutions. The ammonia studies are not related to energy research, but are of considerable theoretical interest to chemists.

The National Science Foundation sponsored the energy research with a grant of \$15,700 to Juniata and the cholesterol studies have been supported for the past two years with a grant of \$10,100 to



Dr. Russey from the Research Corporation.

Dr. Russey himself has been engaged in cholesterol research for about 12 years. He became interested in the subject as a graduate student at Harvard and dealt with it in his Ph.D. thesis, under the guidance of Drs. E. J. Corey and Konrad Bloch. Dr. Bloch won a Nobel Prize for his investigations of cholesterol bio-synthesis in the mid-1950s.

As many heart patients know, cholesterol is a glistening, white, soapy-looking substance which collects in the bodies of animals and humans. It is particularly dangerous when it accumulates in the blood stream and is a frequent cause of heart failure.

Cardio-vascular diseases are the leading cause of death among American adults and the hazards involved in eating large amounts of fatty, cholesterol-rich foods have been highly publicized. However, most people are not aware of the fact that the body also can manufacture its own cholesterol from almost any food source.

The process by which the body produces cholesterol is complicated and isn't completely understood, but scientists do know that it can be slowed down or inhibited in various ways. Dr. Russey and the students who have been working with him—Susan Lowry, Joel Shaffer and Paul Shepperd '75—are studying ways to inhibit one of the steps in the process. Since many enzymes similar to those found in the human body are present in animals as well, the Juniata research team has been using a soupy puree of ground raw hog livers in the study, recording the formation of cholesterol in the puree.

They have been testing the effects of several inhibitors (complex organic compounds such as "iminosqualene") on the production of cholesterol. The prospective inhibitors themselves are prepared in the Juniata laboratories. Eventually, the research may help scientists to produce a substance which could be taken orally to prevent cholesterol buildup.

Another student who participated in summer research on the campus, dealing with a completely different subject, is Charles Barr '75. He has been conducting a research project with "liquid crystals" for more than a year.

"Liquid crystals" sounds like a contradiction in terms. If something is a liquid, it obviously isn't a crystal. But that isn't quite true. There are substances which have some of the



Gary Marpoe '76 is one of two students who have been engaged in solar energy research, under the direction of Dr. Robert B. Hall, assistant professor of physics.

characteristics of crystals and still have the ability to flow like a liquid. However, they are viscous and flow slowly.

Various types of liquid crystals are used in such instruments as thermometers, thermostats, television tubes, x-ray machines and electron microscopes. One of their qualities is that they can be made to change colors dramatically — e.g., from red to blue — when they are subjected to certain stresses or conditions.

For instance, they can be arranged so that the color change takes place at a precise temperature. Thus, they are often used in highly accurate thermometers which indicate slight variations in temperature by changing from one vivid color to another. The value of such an instrument to someone who must store perishable items within a specific temperature range is obvious.

Scientists have known for some time about the color changing qualities and certain other characteristics of liquid crystals, but there still is a great deal to be learned about their molecular structure. In fact, since they do flow, it has been difficult to study the arrangement of the molecules. Barr has been using a method suggested by Kurt Bengtson '72, who is now pursuing graduate studies in bio-chemistry at the Hershey Medical Center. This method, utilizing what scientists refer to as a "spin label," is rather difficult to explain to the layman, but is a new approach involving magnetic properties and should contribute additional information about liquid crystals.

All of the students who participated in the summer research seemed enthusiastic about their experiences and several remarked that it was "exciting" to participate, in a small way, at least, in efforts to solve the energy crisis or curb the high rate of heart attacks in American society.

Traditionally, research has been confined primarily to graduate students and faculty members. Although this point of view has been changing, there are still few colleges which encourage undergraduate research to the extent that Juniata does.

"Research equipment can be quite expensive," Dr. Schettler remarked. "Many small colleges feel that they can't afford it. Larger universities with graduate schools have the equipment, but are often reluctant to let undergraduates use it because they're afraid that it might be damaged. The students at Juniata are fortunate in that we have some excellent equipment and, since we don't have a graduate program, all of it is available to undergraduates."

Moreover, Juniata has been very successful in attracting outside funding for student research. The National Science Foundation established its Undergraduate Research Program in the mid-1950s, but has been selective in the awarding of its grants. Juniata is one of a handful of institutions which have received URP grants almost every year and one of only seven Pennsylvania colleges awarded grants in 1974.

## CAMPUS NEWS:

### 99TH ACADEMIC YEAR BEGINS

Nearly 1200 students, including roughly 365 new ones, appeared on campus early in September when Juniata opened its doors for its 99th academic year.

According to Richard E. Kimmey, director of admissions, some 240 men and 125 women comprised the new student population. The figures include both freshmen and transfer students. Registrar Thomas J. Nolan set upperclass figures at approximately 810.

The first large group to arrive, the new students, appeared on the campus Saturday, Sept. 7. Opening events were scheduled that evening, while full orientation began the next day.

Upperclassmen returned on Sunday, Sept. 8, and fall-term registration followed on Monday. Classes began Tuesday morning, Sept. 10.

Juniata's fall term continues until November 21. The winter term is from Dec. 2 through Feb. 26, and spring term is slated for March 10 through May 28. Commencement will be held on Sunday, June 1.

### ARTIST SERIES ANNOUNCED

Juniata's 1974-75 Artist Series will consist of performances by the Tokyo String Quartet, Saturday, Nov. 9; Natalie Hinderas, pianist, Thursday, Dec. 12; the Jose Coronado Dancers, Thursday, Jan. 23; the National Players, Thursday, March 20, and the Orchestra of St. John's, Smith Square, Tuesday, April 15.

The concert by the Tokyo String Quartet will be one of the events of Parents Weekend. The widely acclaimed quartet in appearing three times in Carnegie Recital Hall during its 1974-75 tour of the United States.

Consisting primarily of graduate students in drama from Catholic University in Washington, D.C., the National Players will present the popular musical comedy, "Charley's Aunt," during their

campus appearance.

Bert Lucarelli, oboist, will be featured as the soloist with the Orchestra of St. John's, Smith Square.

All five programs are scheduled for 8:15 p.m. in Oller Hall. Unsold tickets for single events will be \$5 at the door and season tickets are available for \$12.

In addition, patron memberships are being sold for \$35. Each patron receives two reserved seats for each program. Requests for season tickets and orders for patron memberships should be mailed to Clayton E. Briggs, Artist Series co-ordinator and associate professor of speech and theatre.

### FIFTEEN JOIN FACULTY, STAFF

Fifteen new members of the faculty and administrative staff at Juniata assumed their duties during the summer months or at the beginning of the academic year.

They are Dr. Caroline Baker, catalogue librarian; Jonathan Broido, assistant professor of computer science (part-time); William E. Compton, Jr., director of residence; Nicholas G. Despo, instructor in biology; Dr. Charles L. and Judith W. Lerman, assistant professors of chemistry; Carl Meditch, assistant professor of physical education and head basketball coach; Sally L. Pennington, director of the College Center; F. Robert Reilly, instructor in sociology; Robert C. Rettke, instructor in geology; Dr. John T. Rompala, assistant professor of physics; Philip J. Sipling, instructor in geology; Dr. Elizabeth M. Tilton, assistant professor of French (part-time); Ibrook Tower, instructor in music, and William C. Vocke, assistant professor of political science.

Sipling received the bachelor of science degree with honors in geology from Juniata in 1969. He also holds the master of science degree from Brown University and is nearing completion of the requirements for his doctorate at Brown.

### YEAR DEVOTED TO WOMEN

"Women" are the theme for the 1974-75 academic year at Juniata College. A variety of activities, such as lectures, films and panel discussions, dealing with the theme, will be

presented during the year.

One of the first scheduled events is a "Colloquy on Women" to be held in conjunction with Homecoming on Friday and Saturday, Oct. 18 and 19. The colloquy will include an arts and crafts exhibit, an address on the topic "The Changing Role of Women," and workshops on such subjects as "Effects of Women's Liberation on Men," "Human Liberation," "Women in Sports," "Women and Their Bodies," "Women in Politics and Government," "Child-Rearing and Day Care" and "Women as Wives."

In addition, there are plans for a film series, programs on the campus radio station, and a column in the student newspaper. Moreover, it is expected that the Will Judy Lectures during the coming year and some of the activities of the Spring Academic Festival also will deal with the theme.

Jerrilyn A. Jones, instructor in sociology, is the faculty coordinator and Dare Euler, senior psychology major from North Hampton, N. H., is the student coordinator for the theme.

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The JC Bulletin is designed and produced by the Offices of Alumni Affairs and Public Information: Ronald E. Berkheimer, editor; Clayton N. Pheasant '65, associate editor; Nancy Roop Davis '65, class notes editor; Charles R. Pollock, sports editor; M. Jane Cook and Mary Ellen Lloyd, editorial assistants.



# CLASS NOTES

By Nancy Roop Davis '65

## 1924

LORINE D. HYER of 10-38th St., Irvington, N. J., says that she still enjoys the theatre in New York City, frequent trips to her old hometown of Dayton, Ohio, and occasional jaunts to Europe.

## 1927

AGNES BRUMBAUGH MOOT, though retired, is active as a substitute teacher. She and her husband, Earle O. Moot, reside at R. D. 2, Box 116, Lebanon, Pa. 17042.

## 1929

During the past year CYRUS O. and ISABELLE NICHOLS CAULTON visited Scandinavia and Russia and followed the Juniata football team to all its games including those at Bridgeport, Conn., and Phenix City, Ala. The Caultons make their home at 543 New Gulph Road, Bryn Mawr, Pa. 19010.

C. JEWETT and PHYLLIS WALD '33 HENRY spent Midsummer's Eve, June 23, in Norway, about 80 miles north of Oslo, on property that was part of the original family farm belonging to Phyllis' maternal ancestors in the 1200s. Their two grandchildren accompanied them on the trip.

DONALD M. HILL has also traveled far. He and his wife, Helen, "spent over one third of the past year on an independent around-the-world trip." They visited 21 countries including Yugoslavia, Greece, Turkey, Iran, Pakistan, India, Nepal, Burma, Thailand, Malaysia, Singapore, Indonesia (Java and Bali) and Micronesia. Don reports that they "hunted Bengal tigers and rhinos from elephant back (with a camera) and snorkeled among the coral reefs of the Strait of Malacca, Indian Ocean, and the Micronesian Atolls." At home in La Jolla, Cal., Don conducts a small lapidary and jewelry-making business and enjoys gardening.

## 1931

RAYE TIPTON LAMBERSON '31 is residing in Hollidaysburg, Pa. Her husband, Raymond E. Lamberson, died on March 23, 1973.

## 1932

PAUL x29 and ELIZABETH WILEY LONGNECKER write from Ocala, Fla., that they enjoy retirement; they swim, play golf, play bridge, and are active in their church. Their twin sons, DR. CHARLES WILEY LONGNECKER and COMM. DAVID PAUL LONGENECKER '58, are graduates of the University of Pittsburgh School of Dentistry and are practicing in Emmaus, Pa., and at the Naval Base near Jacksonville, Fla., respectively.

## 1934

HELEN MOCK METZLER retired in July after more than 25 years as a public school music teacher. She plans to enjoy her grandchildren, to remain active in music (as a board member of the Blair Co. Music Association) and to do volunteer work in a local hospital and homes for the aged.

MARIAN MASEMORE HARSHBARGER and her husband, Luther, moved recently to their newly-acquired farm in northeastern Centre County. Their address is R. D. 2, Howard, Pa. 16841.

FRANCIS W. KEMP is busy as director of the Huntingdon County Planning Commission, Huntingdon County Conservation District, and of the Huntingdon County Tourist Promotion Agency. In addition, he is a member of the County Overall Economic Development Policy Steering Committee and the Outdoor Writers Association of America. He and his wife, MARGARET BEISTLINE KEMP '32, live at 1020 Mifflin St., Huntingdon.

## 1936

DONALD A. DUPLER of Philadelphia was elected to the board of trustees of the American College of Cardiology at its annual meeting in New York.

## 1939

In March of this year, ROBERT H. HARRIS completed 33 years of service with Bethlehem Steel Corporation as an industrial engineer. He reports no definite plans for retirement but his hobbies include skeet shooting, photography and gardening.

Recently, CLYDE E. WAY became pastor of the First United Methodist Church of Huntingdon. The parsonage is located at 2201 Murray Ave., just off the Juniata campus and a few hundred yards from the dormitory in which he lived as a student.

From his daughter, Della Swartz Pharis, we hear that M. R. Swartz moved last year to 74th Street East, Long Beach, N. C. 28461. Alumni of the 30's will remember "Carty" Swartz as the football coach at Juniata. He now is busily



Lona Norris '57



Richard Caulk '63

engaged in his hobby of carpentry and furniture refinishing. At age 80, Mr. Swartz organized an "over 50" group that proved so successful that it is now called "The Islanders" and is open to all ages. Carty Swartz would appreciate hearing from Juniata alumni.

## 1944

MARTHA HEISEY BOMBAUGH and her husband, KARL BOMBAUGH '47, moved to 7301 West Rim, Austin, Tex. 78731, when the company Karl founded, Chromatec, Inc., was acquired by a major instrument firm, Trocor, Inc., of Austin. The Bombaughs have four children: DIANE '68, MARCIA RINGGOLD '68, DAVID '73 and Keith at West Point.

FLORENCE CROWELL SIMONS and her husband, Dr. William Simons, are returning to the mission field in the Philippines after spending some time in Denver, Colo., where he taught two quarters at the Conservative Baptist Seminary. Their mailing address is: Box 122, Buckingham, Pa. 18912.

## 1949

A. DALTON JAMES is retiring after 20 years in the Navy Medical Corps, spent in obstetrics and gynecology, submarine, diving and nuclear medicine. He plans to work for the state of California this fall.

## 1951

GEORGE E. KENSINGER of Martinsburg, Pa., has been named executive director of Appalachia Intermediate Unit 8 serving school districts in Blair, Cambria, Bedford and Somerset counties.

## 1953

Juniations are saddened to know that Thelma L. Norris, wife of PHILLIP E. NORRIS, was killed in an automobile accident on July 13, 1974, in New Mexico. His home address is 855 S. Miller St., Denver, Colo. 80226.

## 1954

W. C. (TOM) McNEAL has completed 20 years with the Arrow Company. He is now Arrow's regional manufacturing manager for Alabama. Tom's oldest son, MIKE, is a graduate of the class of 1974 and another son, Tom, plans to enter Juniata in the fall. The McNeal address is: 2603 Briarcliff Rd., Jasper, Ala. 35501.

## 1956

RONALD K. MORGAN has assumed the position of chief of pastoral services and director of clinical pastoral education at the Fallsview (Ohio) Mental Health Center. He resides at 1785 Cromwell Dr., Akron, Ohio 44313.

## 1957

DR. PAUL J. AMASH, associate professor of modern languages at Marietta College, has been awarded tenure.

LONA BEABES NORRIS is serving her first year as a Huntingdon borough councilwoman. She is president of Huntingdon Council of Churches and a past president of the League of Women Voters. Lona also enjoys weaving. Husband, WILFRED G. NORRIS '54, is Provost of the college.

DONALD E. REPLOGLE is now regional manager of the southeastern United States for Singer Corporation — Educational System. He and his wife, RUTH BOWSER REPLOGLE, have moved to 5075 Gulfbrook Dr., Stone Mountain, Ga. 30083.

## 1959

KENNETH L. OPIPERY has been named Pittsburgh division marketing supervisor for the Peoples Natural Gas Co. He and his wife, Pauline, and their three children reside at 7400 Church Ave., Ben Avon, Pa. 15202.

## 1961

RONALD F. VINSON has been promoted to vice president of the INA Life Insurance Company of New York, an affiliate of INA Corp.

JACK M. HEADING writes from Madison College in Harrisonburg, Va., where he teaches, that he and his wife, SUSAN ESHBACH HEADING '62, and their three children have moved to a new home near Bridgewater College.

## 1962

JAMES R. TUFANO, formerly principal of Upper Moreland (Pa.) High School, has been named principal of Cheltenham High School in Wyncote, Pa. Jim also is enrolled in the doctoral program in educational administration at Temple.

## 1963

RICHARD A. CAULK has been appointed dean of students of Utica College. Rich was previously dean of men at Lemoyne College. As a member of the National Association of Student Personnel Administrators, he has published articles in the NASPA Journal. In addition, he is a member of the Japanese-American Citizens League, American Civil Liberties Union and the American Federation of Musicians. Rich and his wife, PAULINE NAGAO CAULK '62, and two children reside at 121 Roxboro Circle, Syracuse, N. Y.

JOHN SAMUEL DEAN of Martinsburg, Pa., received an advanced degree in counseling from Shippensburg State College at the spring commencement exercises.

## 1964

LOIS J. LINKER received her master of science degree in teaching from Florida Atlantic University in June.

## 1965

JEFFREY H. JOHNSON is serving as pastor of Lone Star and Washington Creek Churches of the Brethren in Kansas. He and his wife, the former Marilyn Wampler of Hagerstown, reside on Route 1, Overbrook, Kan. 66524.

## 1967

NORMA JEAN EDGAR BURNS reports that she and her husband, Dr. Bruce Burns, have moved to 500 Walnut St., Royersford, Pa. 19468, where Dr. Burns has a dental office.

DAVID and MARTY KUDERLE SHIMP and new son, Scott Michael, are residing in a new home at 982 Howard Rd., Warminster, Pa. 18974.

Leslie-Locke has announced the promotion and transfer of JAMES R. DONALDSON to manager of marketing analysis and planning with the AP Parts Co., Toledo, Ohio.

## 1968

BARRY L. REINBOLD received an M.S. in chemistry from Pennsylvania State University at the June commencement.

LINDA SUE ESCH has joined the faculty of Colgate University as an assistant professor of mathematics. She received the Ph.D. degree in mathematics from Boston University in June. Her specialties are real and functional analysis, topology and logic.

BARBARA GOLDMAN HALLMAN writes that she and her husband, Dan, are residing at 125 Larkspur Dr., Altamonte Springs, Fla. 32701. Until recently, Bobbie was employed with the Division of Family Services as a supervisor responsible for employment and training of social workers in the central Florida area.

From ANNE PROBASCO KINSEY we hear that she is working part-time as a charge nurse in a home for retarded children in Bucks County. Her husband, ERIC, finished work on his master's degree in library science at Drexel University in December and is now assistant head of extension services at Norristown-Montgomery County Library. They have two sons and make their home at 1425 Lower State Road, Chalfont, Pa. 18914.

## 1971

STEPHEN A. HERSHEY was the 1973-74 recipient of the Albert L. Henne Memorial Award, given annually to the outstanding graduate student in chemistry at Ohio State University. The award, which includes a \$500 stipend, is named in memory of a former Ohio State professor.

## 1972

CRAIG N. NISHIYAMA, president of the class of 1972 received his Master's degree June, 1974 at Temple University and is teaching and coaching in the Hatboro-Horsham School District. His wife, Jane, is a school nurse in the Central Bucks School District. The couple reside in Horsham, Pennsylvania.

We would like to hear about you.

Mail to: Alumni Office, Juniata College, Huntingdon, Pa. 16652

Name \_\_\_\_\_

Address \_\_\_\_\_

Comments, questions or news about yourself: \_\_\_\_\_

## MARRIAGES

PEGGY J. MACK '71 and Keith C. Boales, July 2, 1973, in Ashland, Ohio.

Patricia Ann Adamsky and BRUCE THOMAS KETRICK '73, April 13, 1974, at the First Presbyterian Church of Whippany, N. J.

Sandra J. Grove and TERRY FABIAN '67, April 20, 1974, St. Stephen Lutheran Church, New Kingston, Pa.

Victoria Holler and DR. CARL RONALD DUNCAN '69, April, 1974, in Hagerstown, Md.

NANCY H. KEECH '73 and Richard L. Percival, May 3, 1974, in Willow Grove (Pa.) United Methodist Church.

JEAN MARIE JARROW '74 and KURT R. BENGTON '73, May 4, 1974, Sacred Heart of Jesus Church, Peckville, Pa.

NANCY LYNN CREDE '68 and Bernard Nicoletta, May 18, 1974, in the Natrona Heights (Pa.) Presbyterian Church.

Abigail Ruth Welch and BENJAMIN JOSEPH OTTO '70, May, 1974, in the Sacred Heart of Jesus Catholic Church, Harrisburg, Pa.

MARCIA KELLER x75 and TIMOTHY HERMAN '73 of Newark, Del., June 8, 1974.

Jane A. Hummel and CRAIG N. NISHIYAMA '72, June 29.

Cynthia L. Ondesko and STEVEN GLASS '72, July 13, Corpus Christi Catholic Church, Dunlo, Pa.

JANICE GLASS '74 and DONALD KENSINGER '74, Aug. 3, Roaring Spring Church of the Brethren.

BARBARA ANN ZUCK '64 and Merton A. Christensen, Aug. 3, Whitefield Memorial United Reform Church, London, England.

Susan Rankin and CLAIR KENYON '68, Aug. 24, 1974, in Huntingdon.

## BIRTHS

Jennifer Kerr, born to Jim and CANDACE KERR NAUGHTON '68 on Aug. 20, 1973.

Scott Michael was born in September, 1973, to DAVID S. and MARTHA KUDERLE SHIMP '67.

George Bradford was born to G. ROBERT '70 and BARBARA SPOONER WEAVER '69 on March 23, 1974.

Megan Mary was born to LAWRENCE '67 and ELIZABETH SUPICKI CASPER '69 on May 14, 1974.

Nicole Marie was born to JOHN '67 and JANINE EVERHART KATONAH '69 of Oak Park, Ill., on June 2, 1974.

Jason Daniel was born to ROGER '70 and LINNIE TOWNSEND LONG x70 of Roaring Spring, June, 1974.

Twin boys, Benjamin Todd and James Scott, were born to WILLIAM '66 and SUSAN ANDREWS ALEXANDER '68 on July 25, 1974.

Megan Ann was born to Jill and WILLIAM H. SMITH, JR. '69, August, 1974.

## IN MEMORIAM

JERRY F. KIMMEL '02, Shelocta, Pa.  
EDNA FERRY BERKEBILE Acad. '11, May 22, 1974, Johnstown, Pa.

MARY FISHER HARSHBARGER '13, West Chester, Pa.

FRANK B. ANKENY '14, May 1972, Pittsburgh, Pa.

JEFFORD F. OLLER '18, July 27, 1974, Waynesboro, Pa.

RAYMOND A. MICKEL '19, June 20, 1974, Hudson, Ohio.

MINNIE WILLIAMS BENNETT x26, Balsano, Pa.

WILBER D. STUVER x27, Johnstown, Pa.

DELLA BECHTEL JACKSON '28, Aug. 16, 1974, Morrison Cove Home, Martinsburg, Pa.

F. LEE MYERS '30, Jan. 25, 1974, Freeport, Pa.

DR. FREDERIC H. STEELE '30, Aug. 21, 1974, Atlantis, Fla.

DORIS BAUMAN CAVANAUGH '51, Oct. 23, 1973, Cincinnati, Ohio.



# Dr. Beery Retires After Distinguished Career as Educator

Dr. John R. Beery '30 retired on Sept. 1 after serving for 27 years as dean of the School of Education at the University of Miami. He had joined the School of Education in 1941 as an associate professor of education.

The University of Miami was only 15 years old at the time and had a total enrollment of 1504 students. The School of Education was even younger, having been established in 1929.

Last September the School of Education alone attracted 1079 education majors. Under Dr. Beery's leadership (he was appointed dean in 1947), areas of specialization were developed over the years to include 15 programs for master's degrees, six for the doctor of education, and seven for the doctor of philosophy.

It was also during Dr. Beery's tenure as dean that the School of Education became a pioneer in the training of black teachers, before the Supreme Court decision of 1954. In addition, the Florida School Desegregation Consulting Center was established at the university to assist other schools in developing plans for harmonious integration.

Over the years, Dr. Beery has served on various state, regional and national education councils and committees. Moreover, he was one of a select group of American educators invited by the West German government to study the higher education system of that country for a four-week period in

1963. One of the things Dr. Beery is planning during his retirement is another visit to West Germany to compare the changes in teacher training methods that have been made there and in the United States over the past decade.

Another project he has in mind will involve following up a research study he made some years ago entitled "Professional Preparation and Effectiveness of Beginning Teachers." He wants to contact as many of the 150 participants in the original study as he can to find out what has happened to them professionally. He would like to know whether any differences still exist between those who received professional training before they began teaching and those who entered the field without it.

But these projects will have to wait until after the 1974-75 academic year because Dr. Beery has agreed to serve for a time as director of the University of Miami's self-study team, in preparation for the evaluation of the university by the accrediting agency, the Southern Association of Colleges and Schools.

Before he settled in Miami, Dr. Beery taught mathematics and coached basketball in high schools in Pennsylvania and New Jersey, and for three years he was associate director of an Occupational Adjustment Study sponsored by the National Association of Secondary School

Principals. He earned his master's degree in mathematics at the University of Chicago (1934) and his Ph.D. at Columbia University (1942), specializing in secondary education and research methods.

"I think one of the major recollections of my undergraduate days at Juniata is that it was a happy experience," he writes. "Although things seem to have quieted down a bit now in higher education in this country, I have had the feeling that so many of our recent undergraduates were not having a good time in college, but were so concerned about changing the world and getting ready for their careers that they really did not enjoy the intellectual and social life of college in the way that my memory, perhaps selective, tells me that I and my classmates did."

"In any event, my time at Juniata College has always been one of the highlights of my life. I was greatly honored in 1951 when Juniata, the school that gave me the basic preparation for my professional career, awarded me the honorary doctor of laws degree. I was deeply moved also when the University of Miami, the school where I have spent the major part of my professional life, awarded me another honorary doctor of laws degree on the occasion of my last commencement exercises as dean on May 19."



The award given annually to the most outstanding alumni club has been presented for the second consecutive year to the Philadelphia Area Club. In the photograph above, club president Eugene C. Baten '63 receives a plaque from Shirley Detwiler Lingentfelter '55, president of the Alumni Council. The Philadelphia club was selected for the honor because of the variety of activities it has sponsored and the number of members attending meetings. In addition, a scholarship named for the club was established in 1971 in recognition of the high percentage of club members participating in the Annual Support Fund. The first recipient of the scholarship, Michael J. Klag, graduated with magna cum laude honors last spring and is now attending the University of Pennsylvania Medical School. Klag, formerly of Norristown, majored in biology and the pre-medical curriculum at Juniata. He spent the past summer at the Marine Biological Laboratory at Woods Hole, Mass.

## Jefford F. Oller Dies

Jefford F. Oller of the class of 1918, a member of Juniata's Board of Trustees, died on Saturday, July 27, at the Johns Hopkins University Hospital in Baltimore.

A lifelong resident of Waynesboro, Pa., Oller, 77, was a retired industrialist. He had been a director of the Landis Machine Co., manufacturers of tools. In addition, he was treasurer of the Wayne Building Co., the apartment building in which he lived, and a director of the Alexander Hamilton Memorial Free Library in Waynesboro. A World War I veteran of the U.S. Navy, he held memberships in the American Legion and the Waynesboro Country Club.

As a Juniata student, he had excelled in athletics, setting several records in track.

Oller is survived by his wife, the former Anne Baldrige; a sister, Rello '20, of Waynesboro; and a brother, Jack '23, of Huntingdon, professor emeritus of French.

Former Juniata President Calvert N. Ellis '23 officiated at the funeral.

## PARENTS WEEKEND

**November 8, 9, 10**

**Juniata vs. Frostburg State**

## From Attic to Attic—Yours to Juniata's?

Preparations are underway for the Juniata College Centennial Observances. As every loyal alumnus and friend of the College knows, Juniata will celebrate its 100th birthday in 1976, coincident with our nation's bicentennial.

Among the observances will be displays to acquaint today's and tomorrow's Juniata students with college life of the past. For all of us these exhibits will provide a renewed understanding of our Juniata heritage—born as we know of both trouble and triumph.

For many years, Juniata archivist and walking history book, Harold B. Brumbaugh, has been collecting memorabilia and artifacts which have been lovingly kept in the College's attic under the dome of Carnegie Hall—the old library.

These items, usually received as gifts, will provide the heart of the Centennial displays, but additional items will be welcomed, either as permanent gifts or on temporary loan.

One display that is proposed might be entitled "Memorabilia of Juniata Students Over 100 Years." This particular exhibit will survey the types of clothing, fads, and

popular practices of Juniata students through the years. The intent is to include as wide a variety of examples as can possibly be located. The exhibit will include everything from examples of freshman hazing beanies to the ubiquitous blue jeans so popular among Juniata Students today. Photographs, furniture, souvenirs, printed items, etc., will all be welcomed.

This exhibit will be most effective if we engage the interest of all alumni. We ask you to pause and reflect for a moment about the popular items and remembrances of your years at Juniata. Any artifacts which alumni would be willing to loan temporarily or to donate permanently to the Juniata Museum, will be greatly appreciated.

Correspondence concerning the Centennial Exhibits should be addressed to Ms. Harriet Moyer, Juniata '74, curator of the Juniata College Centennial Collection, Box 978, Juniata College, Huntingdon, Pennsylvania 16652.

We'll be grateful for contributions from your attic to Juniata's attic!



## Juniata Staff Members Honored for Service

Members of the secretarial, clerical and technical staffs at Juniata with more than five years of service were honored last month at the annual staff dinner.

Margaret G. Holland, supervisor of housekeepers, and Hilda Nathan, chief accountant, were recognized for more than 25 years of service. They joined the staff in the summer of 1946.

Other staff members who were honored are:

A. Lenore Conley, assistant to the director of libraries; Robert D. Fisher, bookstore manager, and Barbara M. Rowe, director of operations in the Development Office, for more than 20 years of service.

Silfred Deluna, stockroom assistant, Brumbaugh Science Center; Marjorie A. Layton, administrative assistant, Division of Natural Sciences and Mathematics; Merle W. Lightner, security officer; David M. Reihart, maintenance foreman; L'Nor S. Speck, assistant to the business manager and controller; Steven L. Stoianoff, payroll accountant, and Helen P. Weaver, secretary to the executive director of development, more than 15 years.

M. Jane Cook, secretary in the Public Information Office; Lois A. Fluke, secretary to the registrar; L. Jane Furry, accounts payable clerk; James V. Harbaugh, Jr., equipment manager, Physical Education Department; Ruth W. Heaton, secretary, Development Office, and Betty C. Kenyon, secretary to the provost, more than 10 years.

Marcia S. Christopher, data processing machine operator; Joan N. Finkle, secretary in the Career Planning and Financial Aid Office; Carl I. Fisher, security officer; Betty M. Hartman, receptionist and switchboard operator; Verna B. Horne, secretary, Humanities Division; Iralene H. Jackson, secretary to the president; Margaret K. Johnson, bookstore clerk; Robert Klippert, security officer; Donald L. McClain, data processing computer operator; Joanne M. Park, secretary to the business manager and controller; Marcia J. Reynolds, secretary, Registrar's Office; Harry A. Salter, director of data processing; Irvin R. Thomas, campus printer; Ruth M. Walker, secretary, Admissions Office, and Nancy S. Yocum, clerk in the Print Shop and Development Office, more than five years.

## Colloquy: WO/MEN

**TO:** All Juniata Women—Students, Alumni Staff, Faculty Members, Wives

**FROM:** Jean Pollock '75, Colloquy Co-Coordinator

**SUBJECT:** Colloquy 1974: WO/MEN; Arts and Crafts Exhibition

Homecoming Weekend this fall promises to be doubly eventful, for coinciding with the traditional Homecoming activities is the first major Colloquy of the year on the theme, WO/MEN.

One facet of the Colloquy will be an exhibit of arts and crafts by Juniata women—amateur and professional, hobby and occupation. The representation of many and varied talents will not only provide an interesting exhibition to experience, but also will allow us to sample the creative dimensions of Juniata women. We enthusiastically welcome your participation. If you think you might be willing to participate, please send the following information to:

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Box 1117  
Juniata College  
Huntingdon, Pa. 16652

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- ☐ I'm interested in exhibiting my work.  
☐ I'm interested in conducting demonstrations of my talent.

Nature of art or craft: \_\_\_\_\_

Please reply promptly.

## JUNIATA COLLEGE

# Homecoming

October 18 and 19, 1974



## FRIDAY, OCTOBER 18

### Registration

8:30 a. m. to 5:00 p. m. — Alumni Office, Founders Hall

### Art Exhibit

8:30 a. m. to 6:00 p. m. — Paintings by Susan Rabinowitz Malloy, Shoemaker Galleries, Carnegie Building

### Colloquy on Women

9:00 a. m. to 10:00 p. m. — Arts and Crafts Exhibit, Main Lounge, Ellis Hall

3:00 p. m. — Workshop: "Effects of Women's Liberation on Men"

Resource Leader: Frank Herbert, Alumni Hall, Brumbaugh Science Center

8:00 p. m. — Address: "The Changing Role of Women"

Speaker: Professor Vilma Hunt, Alumni Hall, Brumbaugh Science Center

### Football Luncheon \*

12:00 noon — "Nadzak's Notes": Coach Walt Nadzak will discuss the team and the Albright game. (\$2.25). Faculty Lounge, Ellis Hall

### Entertainment

10:00 p. m. — Film: "Bad Day at Black Rock," Alumni Hall, Brumbaugh Science Center

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7:30 a. m. to 8:30 a. m. — Breakfast (\$1.00), Baker Refectory, Ellis Hall

11:30 a. m. to 1:30 p. m. — Lunch (\$1.50), Baker Refectory, Ellis Hall

5:00 p. m. to 6:30 p. m. — Dinner (\$3.00), Ballroom, Ellis Hall

### Registration

8:00 a. m. to 8:00 p. m. — Main Lobby, Ellis Hall

### Athletic Activities

8:00 a. m. — Alumni-Student Golf Tournament\*, Huntingdon Country Club (Greens Fees \$6.00)

10:00 a. m. — Women's Field Hockey, Juniata vs. Lycoming, Sherwood Field

1:30 p. m. — Football, Juniata vs. Albright, College Field

2:15 p. m. — Cross Country, Juniata vs. Albright, College Field

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Immediately after the football game

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\*Make reservations with the Alumni Office by Wednesday, October 16.



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# Off and Running



Charles C. Ellis '40  
General Chairman



Isabelle Caulton '29  
Alumni Co-chairman



Cyrus O. Caulton '29  
Alumni Co-chairman

## Division Chairmen and Co-Chairmen



Charles C. Brown, Jr.  
'59



William N. Maclay  
'47



Jack Rothenberger  
'52



Hoyt D. Walter  
'68



Richard L. Dodge  
'57



Janet C. Dodge  
'55



John T. Yates, Jr.  
'56

Headed by the general chairman of the Juniata Centennial Fund, Charles C. Ellis '40, senior vice president of RCA, and organized by the alumni co-chairmen, Mr. and Mrs. Cyrus O. Caulton '29, the alumni campaign moved in high gear on Sept. 16.

With 40% of the total campaign goal of \$5 million already committed, approximately 800 alumni volunteer solicitors were preparing to take the Centennial Fund effort into 40 separate geographic regions in three phases: Phase I, Sept. 16 to Oct. 14; Phase II, Oct. 19 to Nov. 15; and Phase III, Nov. 18 to Dec. 19. A more detailed schedule by phase and region is included on this page, along with a recapitulation of advance gifts (totaling \$2,066,826) received prior to the kickoff of the active alumni campaign.

As the general alumni solicitation began, Juniata's had already contributed approximately \$200,000 toward the fund. Although no official goal has been announced, the alumni leadership would like to surpass the amounts contributed during Phases I and II of the Margin of Difference Campaign (a total of \$850,000) and to provide a centennial anniversary gift of \$1 million for the College's endowment fund.

Enlargement of the endowment fund has been readily identified as the most meaningful and lasting way for Juniata's constituents to prepare for the College's centennial. Financial stability and educational enrichment, which added endowment can provide, are conditions which must prevail if Juniata's innovative educational program is to continue to succeed and, indeed, if the College itself is to have significance for the future. This calls for the building of an endowment fund which will support, in addition to other goals, the following four objectives: (1) encouraging sound teaching through adequate faculty compensation; (2) an improved capacity for assisting needy and promising students; (3) professional development of the faculty and support of scholarly and research activities, at least some of which would call for student involvement; (4) sponsoring events which enrich the cultural life of the College community and our neighbors in Central Pennsylvania. We believe these conditions to be fundamental, even as new creative and self-revitalizing efforts are pursued in succeeding decades.

The Juniata Centennial Fund is the third and final phase of a program for advancement begun

## JUNIATA CENTENNIAL FUND

— as of June 30, 1974

SOURCE	COMMITTED
Trustees .....	\$601,170.17
Alumni .....	145,220.10
Associates .....	26,235.36
Church of the Brethren .....	5,792.26
Juniata Parents Association .....	4,115.00
Foundations .....	980,107.50
Corporations & Business .....	59,003.00
Students .....	32,255.00
Bequests .....	127,234.71
Government Grants & Research .....	85,693.00
	<hr/>
	\$2,066,826.10

in 1968. This program, entitled the "Margin of Difference," raised \$5.3 million between 1968 and 1973, surpassing the combined goals of Phases I and II in the effort to reach the ultimate goal of at least \$10 million by 1976. Because of the concern and dedication of the members of the Board of Trustees, and the leaders of all segments of the College's constituency, Juniata has been able to conduct its fund-raising efforts without the help of professional counsel. We have been most fortunate in the remarkable extent of volunteer involvement and personal giving on the part of trustees, alumni, and leaders of the surrounding community.

During these times of financial stringency within higher education, Juniata College has concluded each fiscal year since 1969 with a balanced budget. This is a tribute to the steadfast support given to Juniata by all its constituents. The Annual Support Fund, introduced in 1969, provides a notable advance with ever-widening alumni

participation. The fund has grown from \$115,000 in its first year (1969-70) to \$135,000 in 1973-74. This growth has been made possible by the remarkable increase in alumni support, from 35% participation in 1968-69, followed by steady growth to 46% in 1972-73.

Juniata's endowment fund presently totals \$5,458,119 or almost twice the \$2.8 million it contained in 1968. Our goal now is to come as close as possible to doubling the endowment again with gifts and pledges of at least an additional \$5 million by 1976. As we remarked previously, we believe that this is the most important and the most substantial way to insure the College's future strength and usefulness.

Strong constituent support from off-campus, and continual striving on the campus toward educational soundness and vitality, will insure Juniata's worth and usefulness to the students and the free society which the College is privileged to serve.

## THE JUNIATA CENTENNIAL FUND: Regional Campaigns and Leadership

### PHASE I

**September 16** (starting date)  
Vermont — Dr. Wayne C. Patterson '60  
New Hampshire — Dr. & Mrs. James S. Butler '59-'60  
Maine — Mrs. Miriam Smith Wetzel '52  
Connecticut — Robert E. Wagoner '53  
Waynesboro — Leroy S. Maxwell, Sr. '36  
Leroy S. Maxwell, Jr. '63  
Frederick — Dr. Fred P. Heydrick '55  
Southern Virginia — Robert A. Doyle '60  
West Virginia — Dr. Kenneth L. Wible '65  
Hagerstown — Donovan R. Beachley, Sr. '21  
Donovan R. Beachley, Jr. '47  
Chambersburg — Karl A. Shreiner '61  
Bedford County — Dr. Ben F. Van Horn '38  
Juniata, Mifflin & Snyder Counties —  
W. Clay Burkholder '35  
Arizona — P. M. Snider '26  
New York City — Melvin L. McCreary '35  
York — Roy H. Rollman '55

### PHASE II

**October 19**  
Berks County & North — Thomas D. Snyder '66  
Conemaugh Valley — George Fattman '58  
Huntingdon — Mr. & Mrs. James D. Hunt '56  
Blair County —  
Mr. & Mrs. C. Wesley Lingenfelter '55  
Harrisburg — Myron C. Dunlavy, Jr. '50  
Lancaster — James R. Heck '59  
Michigan — Denton B. Emmert '36  
Upstate New York — Barry L. Drexler '56  
Western New York —  
Mr. and Mrs. Denis P. Albright '68  
Illinois — Stanley L. Davis, Jr. '59  
Northern Ohio —  
Dr. and Mrs. Ronald D. Chamberlin '57  
Southern Ohio — Dr. William J. Straughen '54  
Pittsburgh — Ronald W. Wertz '59  
Indiana — William G. Biehl '59  
Allentown and North —  
Richard O. Wenger '57

### PHASE III

**November 18**  
Washington, D. C. — James P. Brumbaugh, II '49  
Greater Philadelphia —  
Dr. and Mrs. Russell A. Hill '55;  
Mr. and Mrs. Gerald F. Hartzel '51, '49  
Route 80 — Charles C. Brown, Jr. '59  
Baltimore — Mr. and Mrs. William P. Nyce '48-'46  
North Jersey — Mrs. Martha Stayer Alfano '61  
South Jersey — William T. Bolt '55  
Delaware — Dean R. Buckwalter '65  
California — John H. Martin, Jr. '55  
Georgia — Dr. W. Newton Long, Jr. '40  
Florida — David L. Zook '47  
Massachusetts & Rhode Island —  
The Rev. Charles E. Haines '57



# Nadzak's Goals are Modest, But Hopes are High

By CHARLIE POLLOCK

Back in 1972, having just completed a 6-3 season, Walt Nadzak felt "we have turned the corner in our total football program." Little did he know what further lay beyond that bend in the road.

Lest we forget, the Indians, 1973 Northern champs in the Middle Atlantic Conference, were runners-up for the NCAA Division III national crown.

Yet all the honors captured last year notwithstanding, the Indians' goals were few: win the first one, get "up" for each game, and be a contender in the conference. Looking over the Indians' slate on the eve of the opening game this fall, Nadzak was setting the same modest sights for 1974.

"There can be no question," says Nadzak, the NCAA Coach of the Year for District II, "everyone guns for the winner. This will make things tough enough, but we enter the 'meat' of our schedule right away. Our schedule demands we be fully ready by the opener."

Ithaca College, an Indian rival for just one year, hosted the opener Sept. 21. A win would push



Senior Carmen DeFrancesco is the only offensive back returning from the 1973 championship team.

## Three Recent Graduates Join J.C. Coaching Staff

Three recent graduates of Juniata — Keith Black and Tom Herrman '73 and Mike McNeal '74 — have joined the staff as part-time assistant coaches.

Black, a three-time letterman in basketball, will assist the new cage coach, Carl Meditch. Herrman and McNeal, each of whom won four letters on the gridiron, will aid head football coach Walt Nadzak.

All three live in Huntingdon. Black is the adult probation officer for Huntingdon County. Herrman and McNeal are both employed by Harbison-Walker Refractories at Mount Union.

According to Meditch, "we certainly look forward to having someone of Keith's calibre and enthusiasm in our program. I look to him for help in many situations, and Keith has great knowledge of the area and the school."

Herrman, says Nadzak, "was one of the soundest players we've had in recent years. He took our coaching very well. He knew the fundamentals. We expect him to apply the same principles to his coaching." He was Tribe tri-captain in his senior year, playing defensive end, and will work with the defensive line.

McNeal, winner of last year's Stanford Mickel Award, will work with the jayvees and the offensive unit of the varsity. He co-captained last fall's Indian team, gaining honorable mention, All-Pennsylvania. He was first-team halfback, All-MAC and led the Tribe in scoring for the fourth straight year. In addition, he holds career records at Juniata for field goals and PATs.

Juniata beyond the all-time 200-victory mark, but the Bombers were expected to field their best team in years.

The schedule, however, has not been making the only demands. The annual drain caused by graduation has made some big ones, too. Gone from the '73 offense are six key starters, four all-state and five all-conference. Three, including the league's MVP Lou Eckerl, were backs.

Among the veterans who have returned are senior captains Sean Ryan, a third-team all-state guard, and Carmen DeFrancesco, the tailback. Ryan (6-0, 205) provides a strong foundation for the Indians' rebuilt interior line. He's an excellent one-on-one blocker. He is joined inside by junior tackle Charlie Zorger, who also started last year.

The diminutive DeFrancesco (5-7, 175) provides the leadership Nadzak needs in an otherwise young backfield. The team's third-leading rusher last fall (4.2 yards per carry), DeFrancesco makes the most of good speed, good quickness and great desire. He's a definite breakaway threat.

He and receivers Rick Rudolph and Pete Lentini, the split and tight ends, respectively, should provide a bunch of big plays. Rudolph, a junior, was third-team all-state and the Tribe's top receiver last year. Lentini, a senior, was number two. They combined for nearly 1000 yards on 46 grabs. With freshman Kim Sypula, they could give the Tribe the best catching corps in the league.

Throwing to all that talent will be sophomore Dave Wichrowski, who has all the quarterback's tools.

Defense is playing the "horse" this fall. "They'll have to carry the team until the young offense jells," says Nadzak. The Blue and Gold ranked fourth in the nation against the score last fall, and that unit is almost intact. Ten starters have returned, including junior captains Steve Lehman, an honorable mention, all-conference cornerback, and linebacker Dan Ereditario.

Lehman, who may be "the most underrated defensive player in the league," is joined in the secondary by junior Dave Cortazzo, senior Keith Colonna and senior Steve Norris, a former split end.

The line is younger but just as strong, with three "super-sophs" inside: tackles Mike Hanselman, "the most coachable player on the squad," and big Don Page (6-4, 230), and middle guard Stu Jackson. A pair of juniors, Jim Ruoss and Don Leauber (honorable mention, All-MAC) start at end.

Ereditario, the team's second-leading tackler last year, backs the line with the leader, Barry Hartley (6-0, 190). Hartley, a junior was first-team all-conference last fall.

"Our success," Nadzak feels, "will depend on two major factors: motivation, and how quickly the offense has developed. We thought we'd have a good team last year, we just didn't know how good. The guys began to believe they could win."

"In order for us to come even close to doing what we did last year, we'll have to keep that same feeling. We'll need to develop unity, and that takes a lot of confidence. We're going to have to believe."

The gridiron wasn't the only place where corners were turned, programs furthered, and believers made last fall. The young cross country team, which returns with most of its strength, turned in its first winning season since 1963. Under first-year

coach Carl Meditch, assisted by Dr. Don Mitchell, the Indian harriers now plan to make winning a habit.

And JoAnne Reilly's field hockey team, which played its first varsity season, plans to make the second one a giant step for womankind.

Led by Greg Ransom, the MVP as a freshman last fall, the cross country team has a slew of veterans back. Sophomore John Ausherman, juniors Jack McCullough and Paul Wilson, and senior Bill Kibler should once again rotate the number-two finish for the Tribe.

Ransom is expected to improve on last year, and that will be no easy job. He led the team in all but one meet he ran, including the MACs. In the latter, he finished eighth, the best performance by any freshman in the mammoth 19-team field. The Indians finished fourth.

The Blue and Gold face heavy competition from Bucknell, the IC4A College Division champion, Gettysburg, Johnstown-Pitt, and Delaware Valley.

On the hockey field, the second-year team is shooting for a winning season. "We came very close last year," says Reilly. "One single goal against Susquehanna would have done the job. Instead of 2-3-1, we could have been 3-3. We didn't have any confidence, and that really hurt us all fall."

With "first-night jitters" behind them, the women charge into a full 11-game schedule, almost twice as large as last year's. All but one player return, including standouts like goalie Pam Weaver, center-halfback Kim Norris, and inners Holly Harmon and Kyle Messick. Harmon, a sophomore, was the team's leading scorer in 1973.

Both the cross country and field hockey teams open their seasons Sept. 30, the former at home against St. Francis, the latter at Susquehanna.

## 'A Collegiate Jewel'

The success of Chuck Knox '54 in the highly competitive world of professional coaching has led to a publicity bonanza for Juniata.

Knox, almost everyone's choice as National Football Conference "Coach of the Year" after his Los Angeles Rams compiled a 12-2 record last season, has been interviewed frequently by network broadcasters and writers for nationally circulated magazines.

One of the more intriguing stories about him appears in the October issue of Esquire. Written by Wells Twombly, it includes the following remarks:

"He (Knox) never played professional football, never received so much as a hint of an offer of athletic aid from a major college, since there was little demand for 180-pound high-school guards even in the football-daft Pennsylvania of the early 1950's."

"Instead he went to Juniata, a collegiate jewel that required him to read Plato in the original Greek, that asks even the varsity football players to undergo seven-hour oral and written examinations before receiving bachelor's degrees. Nobody majors in physical education because it is not offered as a major course of study."

"So Knox studied history and he is exceedingly fond of flashing his intellect by using historical references to jar Los Angeles sportswriters . . ."

## Fall Sports Schedules

### FOOTBALL

Sept. 21	Ithaca	..... A
Sept. 28	Susquehanna*	..... H
Oct. 5	Lycoming*	..... A
Oct. 12	Wilkes*	..... A
Oct. 19	Albright*	..... H
	(Homecoming)	
Oct. 26	Upsala*	..... H
Nov. 2	Delaware Valley*	..... A
Nov. 9	Frostburg	..... H
	(Parents' Day)	
Nov. 16	Moravian*	..... A
	*Middle Atlantic Conference	

### J. V. FOOTBALL

Sept. 30	Bucknell	..... A
Oct. 7	Gettysburg	..... A
Oct. 14	Shippensburg	..... A
Oct. 21	Susquehanna	..... H

### CROSS COUNTRY

Sept. 30	St. Francis	..... H
Oct. 5	Susquehanna	..... A
	Delaware Valley	
Oct. 8	Bucknell	..... A
Oct. 15	Elizabethtown	..... H
Oct. 19	Albright	..... H
Oct. 23	Shippensburg	..... A
Oct. 24	Johnstown-Pitt	..... H
Nov. 2	Dickinson	..... A
Nov. 6	Gettysburg	..... H
Nov. 11	MAC Champ.	..... A

### FIELD HOCKEY

Sept. 30	Susquehanna	..... A
Oct. 2	Shippensburg (2)	..... A
Oct. 10	Indiana (2)	..... H
Oct. 12	Lycoming	..... A
Oct. 16	Bucknell (2)	..... A
Oct. 19	Lycoming	..... H
Oct. 23	Dickinson (2)	..... H



# *Juniata is Cited for High Percentage Of Alumni Earning Doctoral Degrees*

Juniata ranks among the leading colleges and universities in the country in the percentage of its graduates who earn doctoral degrees, according to an article published in the August 9 issue of Science magazine.

The article lists the 59 leading colleges for 1920-39 and 1950-61, as determined by a "productivity index" devised by Kenneth R. Hardy, professor of psychology at Brigham Young University.

Juniata ranks 24th nationally and fourth among Pennsylvania colleges in the latter period with an index of 95.4.

"The index represents the weighted number of (baccalaureate) graduates per thousand who received a scholarly doctorate within the specified time periods," Professor Hardy explains. "The weight permits comparisons between sources which graduate varying proportions of women to men, since it adjusts for the fact that women obtain doctorates at much lower rates than men, the rates varying with the fields of specialization."

Unfortunately, Professor Hardy has no statistics covering the 1960s. The number of Juniata graduates with doctorates rose sharply during the '60s. From 1920 to 1961, a total of 161 alumni received doctor's degrees and this figure was almost doubled over the next 11 years as an additional 152 earned their doctorates from 1962 to 1972.

In addition, it should be noted that these totals do not include medical degrees such as the M.D., D.D.S. (dental surgery) and D.V.M. (veterinary medicine). Since numerous Juniata graduates enter these fields, the College's rating might be even higher if medical degrees were included.

Much of Professor Hardy's article, entitled "Social Origins of American Scientists and Scholars," deals with the religious background of those who hold doctorates. He notes the historical affiliation of Juniata with the Church of the Brethren and points out that Manchester College, another Brethren school, also ranked among his national leaders in the period from 1950 to 1961. Manchester was 58th with an index of 65.6.

"These two schools show a striking growth in output," he continued, "being just above average in the early period, but high in output in the later period, with Juniata College being especially outstanding."

Professor Hardy acknowledges that he faced numerous pitfalls in trying to assess the extent of religious influence on the "production" of scientists and scholars. He points out that the actual influence of the church at denominational colleges varies considerably, that there also is a wide divergence of admissions standards at

church-related colleges, and that "not everyone who attends these schools subscribes to the faith" of the denominations with which they are affiliated.

Nevertheless, he does say that colleges with historic denominational ties, with a few notable exceptions, have been "relatively productive in comparison with the total group" of institutions included in his study.

The exceptions, according to Professor Hardy, are the church-related colleges of those faiths which tend to be authoritarian or fundamentalistic. He also quoted earlier studies which reached the same conclusion.

"I suggest that there is a set of cultural values that promote scientific and scholarly activity and that these are found most clearly in those groups highest in the production of scientists and scholars; these values appear to be less in groups of moderate productivity, and the antithesis of these values is found most clearly among those groups who are least productive of scientific and scholarly workers," he remarked.

The three Pennsylvania colleges with productivity indices higher than Juniata, as reported by Professor Hardy, were Bryn Mawr, Swarthmore and Haverford.

**JUNIATA**

JUNIATA COLLEGE

Huntingdon, Pennsylvania 16652